TC-RX77/RX77ES

SERVICE MANUAL

US Model Canadian Model

TC-RX77ES

AEP Model

TC-RX77



Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation. "DOLBY" and the double-D symbol D are trademarks of Dolby Laboratories Licensing Corporation.

SPECIFICATIONS

Model Name Using Similar Mechanism	TC-RX70/RX70ES
Tape Transport Mechanism Type	TCM-200R6

Recording system

4-track 2-channel stereo

Fast-winding time

Approx. 90 sec. (with Sony C-60

cassette)

Bias

AC bias

Heads

Erasing head × 1 (ferrite head)

Playback/Recording head × 1 (LA

head)

Motors

Capstan motor × 1 (DC servo motor)

Reel motor × 1 (DC motor)

ASIST (mechanical drive) motor \times 1

(DC motor)

Signal-to-noise ratio (at peak level)

Dolby NR switch Cassette	OFF	B-Type ON	C-Type ON
Type IV (Sony METAL-SLT)	59 dB	67 dB	74 dB
Type II (Sony UX-S)	58 dB	66 dB	73 dB
Type I (Sony HF-S)	56 dB	64 dB	71 dB

Total harmonic distortion

1% (with Sony METAL-SLT cassette)

Frequency response (DOLBY NR OFF)

	20-20,000Hz (± 3db,IEC) (US, Canadian models) 25-19,000Hz (± 3db,IEC) (AEP)
Type II cassette (Sony UX-S)	25 - 17,000 Hz (±3 dB, IEC)
Type I cassette (Sony HF-S)	25 - 16,000 Hz (±3 dB, IEC)

Wow and flutter

±0.09% W. Peak (IEC) 0.06% WRMS (NAB) ±0.16% W. Peak (DIN)

Inputs

- Pate		
Line inputs	Sensitivity	77.5 mV
(phono jacks)	Input impedance	47 k ohms
Microphone inputs (phone jacks)	Sensitivity (For a low-impedance microphone)	0.25 mV

Outputs

Line outputs (phono jacks)	Rated output level	0.32 V at a load impedance of 47 k ohms
	Load impedance	Over 10 k ohms
Headphones (stereo phone jack)	Output level	0-1.25 mW at a load impedance of 32 ohms

General

Power requirements

RX77ES: 120 V AC, 60Hz (US, Canadian models) RX77: 220V AC, 50/60Hz (AEP model)

Power consumption 20 W

Dimensions

Approx. $430 \times 123 \times 300 \text{ mm (w/h/d)}$

 $(17 \times 4^{7}/_{8} \times 11^{7}/_{8} \text{ inches})$

including projecting parts and controls

Weight Approx. 4.7 kg (10 lbs 6 oz)

Supplied accessory

Audio connecting cords (2)

Design and specifications subject to change without notice.



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SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK A OR DOTTED LINE WITH MARK A ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE A SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

SAFETY CHECK-OUT

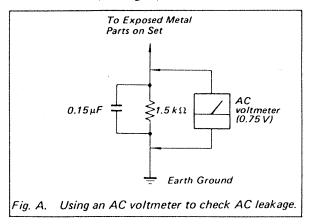
After correcting the original service problem, perform the following safety check before releasing the set to the customer:

Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

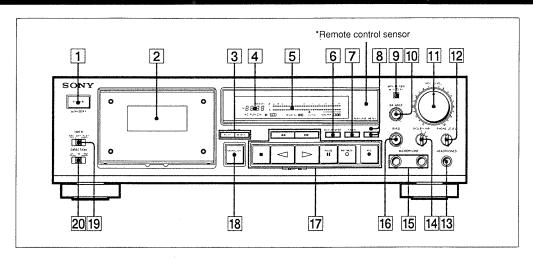
- A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
- 2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
- 3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)



SECTION 1 GENERAL

This section is extracted from instraction manual.

Identification of Front Panel Parts



For details, refer to the page number indicated in .

- 1 POWER switch
- 2 Cassette holder
- 3 Counter buttons RESET button **⊙** MEMORY button **⊙ ⊙**
- 4 LINEAR COUNTER 9
- 5 PEAK LEVEL METER @
- 6 DISPLAY MODE button @
- 7 FADER button 6
- 8 ARL (automatic recording level) control and indicator (

- 9 MPX FILTER button @
- 10 BALANCE control @
- 11 REC (recording) LEVEL control @ @
- 12 PHONE (headphones) LEVEL control @
- 13 HEADPHONES jack (stereo phone jack) @
- 14 DOLBY NR (noise reduction switch) 7 19
- 15 MICROPHONE jacks (phone jacks)
- 16 BIAS control ®

- 17 Tape operation buttons
 - ◄ (leftward fast winding) button
 - >> (rightward fast winding) button
 - (stop) button
 - ✓ (reverse play) button
 - (forward play) button
 - II PAUSE (pause) button
 - O REC MUTE (record muting) button @
 - REC (record) button
- 18 ♠ OPEN/CLOSE button
- 19 TIMER switch (
- 20 DIRECTION mode switch ? (1)

*Remote control sensor

You can remotely control this cassette deck with:

- A remote commander that came with a Sony amplifier or receiver if it has the mark and cassette deck control capability.
- An optional Sony remote commander with the
 mark and cassette deck control capability.

LINE IN (line input) jacks LINE IN (line input) jacks LINE IN LINE OUT Connect to the CONTROLS terminal of a Sony amplifier or receiver for remote control. (US, Canadian model)

Features

For higher quality recording/playback

- The Dolby HX PRO* system which improves the linearity of the tape's high-range response during recording.
- B and C type Dolby NR* systems which reduce tape noise.
- Bias calibration to achieve the optimum bias current setting for any tape.

For your convenience

- Quick reversing at the end of a tape to minimize interruptions during playback and recording.
- The AMS and Memory Play functions which provide easy access to a desired selection.
- Automatic recording level adjustment for one-touch protection against distortion.
- Timer-activated playback and recording through the use of an optional timer.
- Automatic switching between line and microphone input when recording with a microphone.
- Display mode button which allows you to select normal display, counter only or display off.

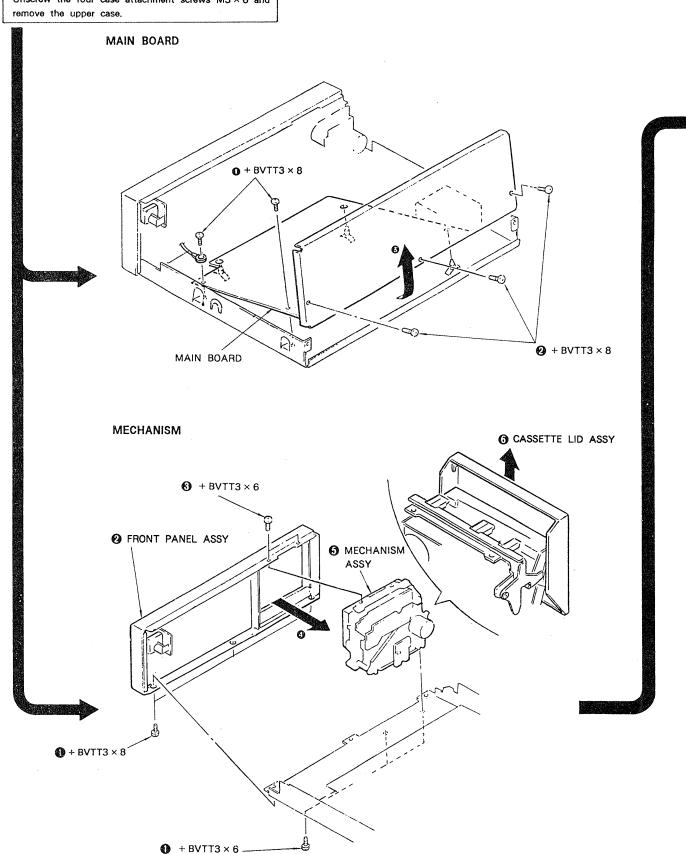
For easier operation

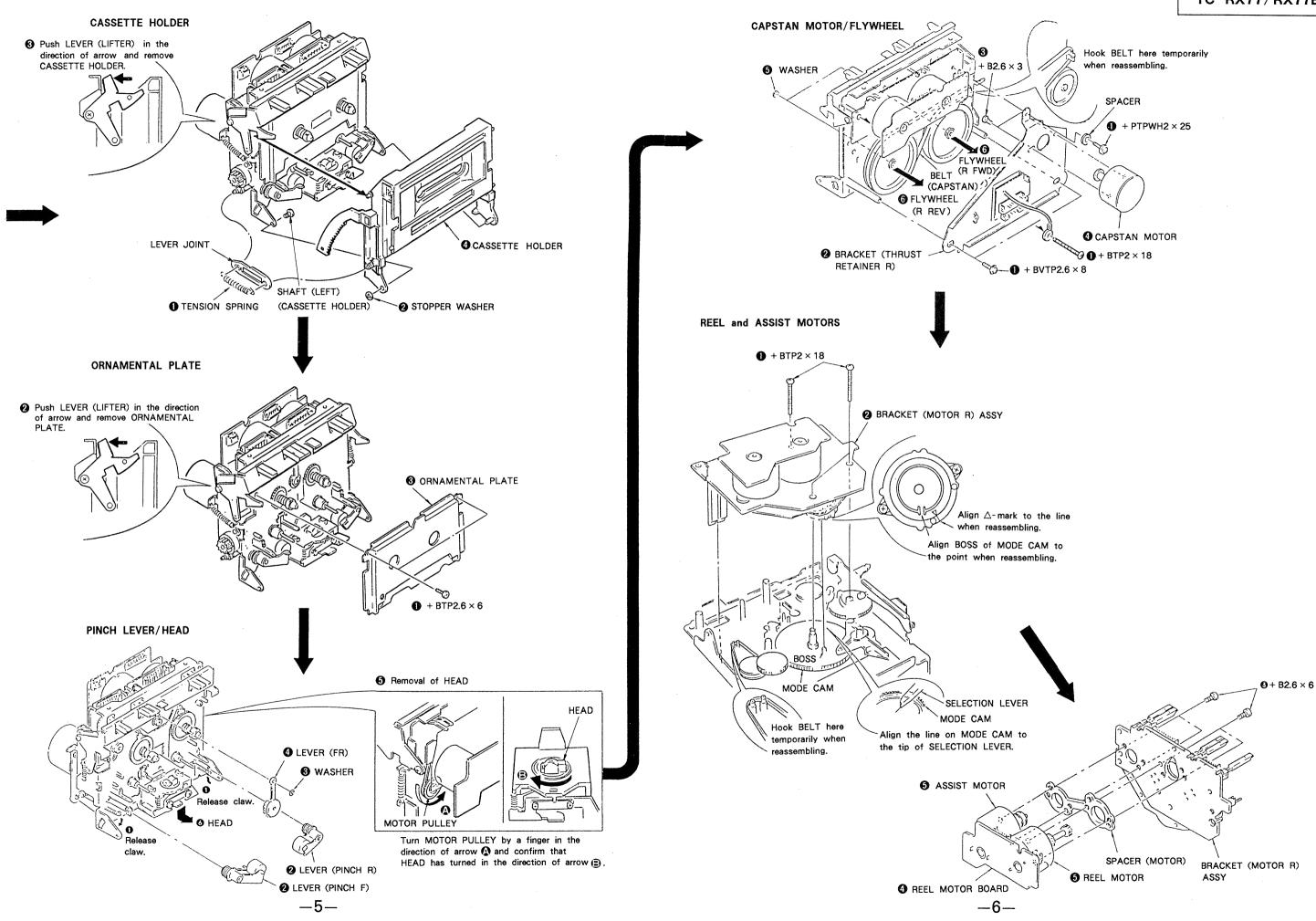
- Fade-in and Fade-out functions to start and end recordings with a professional touch.
- Easy-to-read digital linear counter which shows the elapsed recording or playing time.

SECTION 2 DISASSEMBLY

Note: Follow the disassembly procedure in the numerical order given.

Unscrew the four case attachment screws M3 × 8 and





SECTION 3 ADJUSTMENTS

3-1 MECHANICAL ADJUSTMENTS

PRECAUTION

1. Clean the following parts with a denaturedalcohol-moistened swab:

> record/playback head erase head

pinch roller rubber belts

capstan

idler

- Demagnetize the record/playback head with a head demagnetizer.
- 3. Do not use a magnetized screwdriver for the adiustments.
- 4. After the adjustments, apply suitable locking compound to the parts adjusted.

TORQUE MEASUREMENT

Torque	Torque meter	Meter reading	
FWD	CQ-102C	30-60g · cm (0.42-0.83oz · inch)	
FWD	CQ-102C	1 Faram (0.014 0.060an in ah)	
Back tention	CQ-102C	$1 - 5g \cdot cm \ (0.014 - 0.069oz \cdot inch)$	
REV	CQ-102RC	$30 - 60g \cdot cm \ (0.42 - 0.83oz \cdot inch)$	
REV	CO 102DC	1 5 (0.014 0.000	
Back tention	CQ-102RC	$1 - 5g \cdot cm \ (0.014 - 0.069oz \cdot inch)$	
FF, REW	CQ-201B	65 - 90 • cm (0.9 - 1.25oz • inch)	

3-2. ELECTRICAL ADJUSTMENT

Note: The adjustment should be performed in the order given in the service manual. As a rule, adjustments about playback should be performed before those about recording. The adjustments should be performed for both L-CH and R-CH.

Switches and controls should be set as follows unless otherwise specified.

DOLBY NR switch

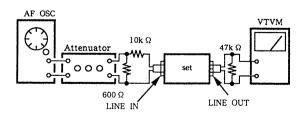
: OFF

DIRECTION switch

Standard Record:

Deliver the standard input signal level to the input jack and set the REC LEVEL control to obtain the standard output signal level.

-Record Mode-



Standard Input Level

input terminal	LINE IN
source impedance	10k Ω
input level	0.25V (-10dB)

Standard Output Level

output terminal	LINE OUT
load impedance	47k Ω
output level	0.32V (-7dBs (m))

Test Tape

Туре	Signal	Used for
P-4-A100	10kHz, -10dB	Azimuth Adjustment
P-4-L300	315Hz, 0dB	PB Level Adjustment
WS-48B	3kHz, 0dB	Tape Speed Adjustment

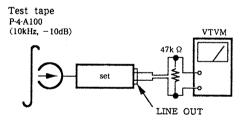
Test Mode

- 1. Put the set into the test mode by shorting test point TP801 (TEST) of the main bord during the set is turned off.
- 2. Remove the short after the Electrical Adjustment is completed.

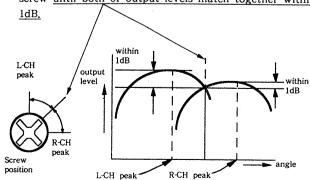
Record / Playback Head Azimuth Adjustment

Procedure:

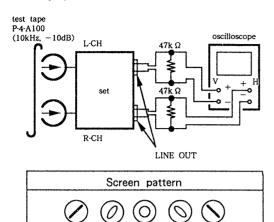
1. Mode: FWD playback



2. Turn the adjustment screw for the maximum output levels. If these levels do not match, turn the adjustment screw until both of output levels match together within



3. Phase Check
Mode: playback



4. Set in the REV mode and repeat the step 1-3.

90°

135°

180°

wrong

After the adjustment, lock the screws with locking compound.

Adjustment Location: Record/Playback head

45°

good

in phase



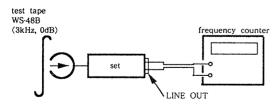
Tape Speed Adjustment

Setting:

test pin TP801: short

Procedure :

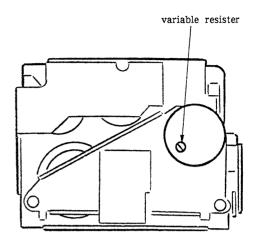
Mode: playback



- 1. Set to FWD playback mode.
- 2. Adjust motor rear side (variable resistor) so that the frequency counter reading becomes $3,000\pm15 Hz$.

Adjustment Location:

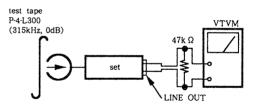
motor rear side



Playback Level Adjustment

Procedure:

Mode: playback



Adjust RV101 (L-ch) and RV201 (R-ch) so that the reading on VTVM meets the adjustment limits below.

Adjustment Limits:

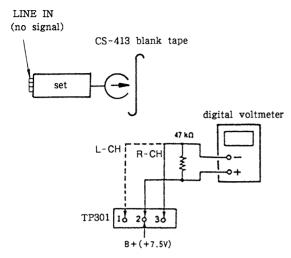
LINE OUT level: -7.7dBs(m) ± 0.5 dB(0.3 \sim 0.34V)

Level difference between channels: less than 0.5 dB Check that the LINE OUT level does not change even if Playback and Stop operation is repeated several times.

Adjustment Location: Main board

Bias Current Adjustment

Procedure:



- Set RV103 and RV203 to mechanical center and turn the set recording mode.
- 2. Connect digital voltmeter as shown by the following table.
- Adjust the following transformers for the minimum readings on the digital voltmeter.

	Mesurement Point	Adjustment Part	Value
L-ch	① and ②, TP301	T101	not more than
R-ch	. ② and ③, TP301	T201	130mV

Adjustment Location: Main board

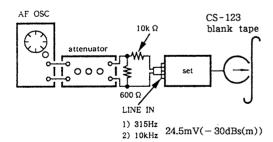
Record Bias Adjustment

Setting:

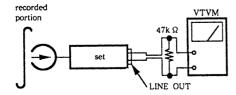
REC LEVEL control: Standard Record (See page 7.) test pin TP801: short

Procedure :

1. Mode: record



2. Mode: playback



Playback the signal recorded in step 1.

Confirm that the 10kHz playback output is $0\pm0.5dB$ relative to the 315Hz output. If necessary, adjust RV103 (L-ch) and RV203 (R-ch) for repeat the steps given above.

Adjustment Location: Main board

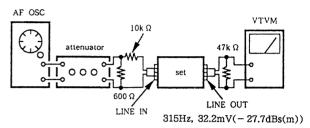
Record Level Adjustment

Setting:

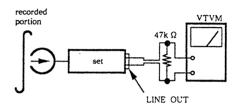
REC LEVEL control: Standard Record (See page 7.) test pin TP801: short

Procedure:

1. Mode: record



2. Mode: playback



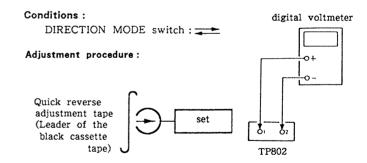
3. Playback the signal recorded in step1.

Confirm that the signal level is within the adjustment limits below. If necessary, adjust RV102 (L-ch) and RV202 (R-ch) repeat the step1-2.

Adjustment Limits: $-27.7 dBs(m) \pm 0.5 dB(30.4 \sim 34.2 mV)$

Adjustment Location: Main board

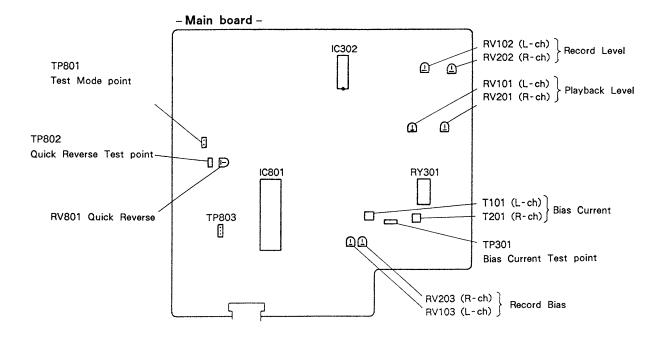
Quick Reverse Sensitivity Adjustment



- 1. Connect the digital voltmeter to test point TP802.
- Load quick reverse adjustment tape and play back the leading portion in FWD mode.
- 3. Adjust the RV801 for $4.5\pm0.5V$ reading on the digital voltmeter.
- 4. Play back quick reverse adjustment tape in FWD mode again.
- 5. Confirm that the reading on the digital voltmeter is "L" level at the magnetic portion of the tape.
- 6. Confirm that the tape stop around the tape end (boder of the leading and the magnetic portions).

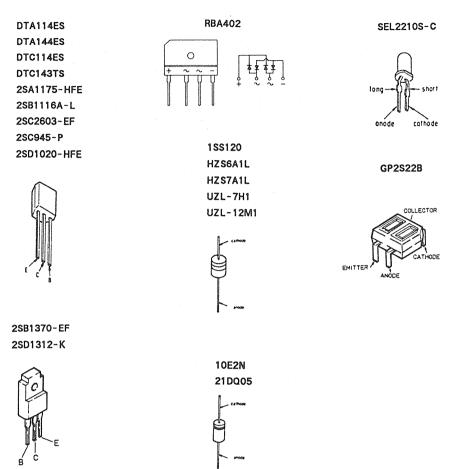
Adjustment Location: Main board

Adjustment Parts Location

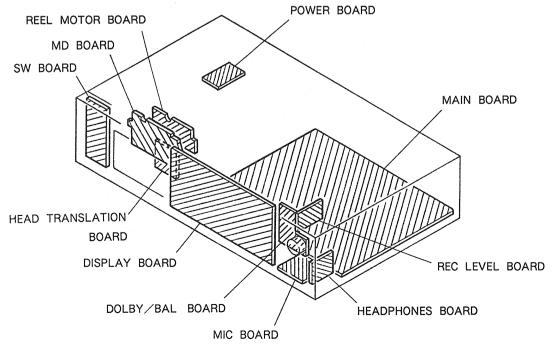


SECTION 4 DIAGRAMS

4-1. SEMICONDUCTOR LEAD LAYOUTS

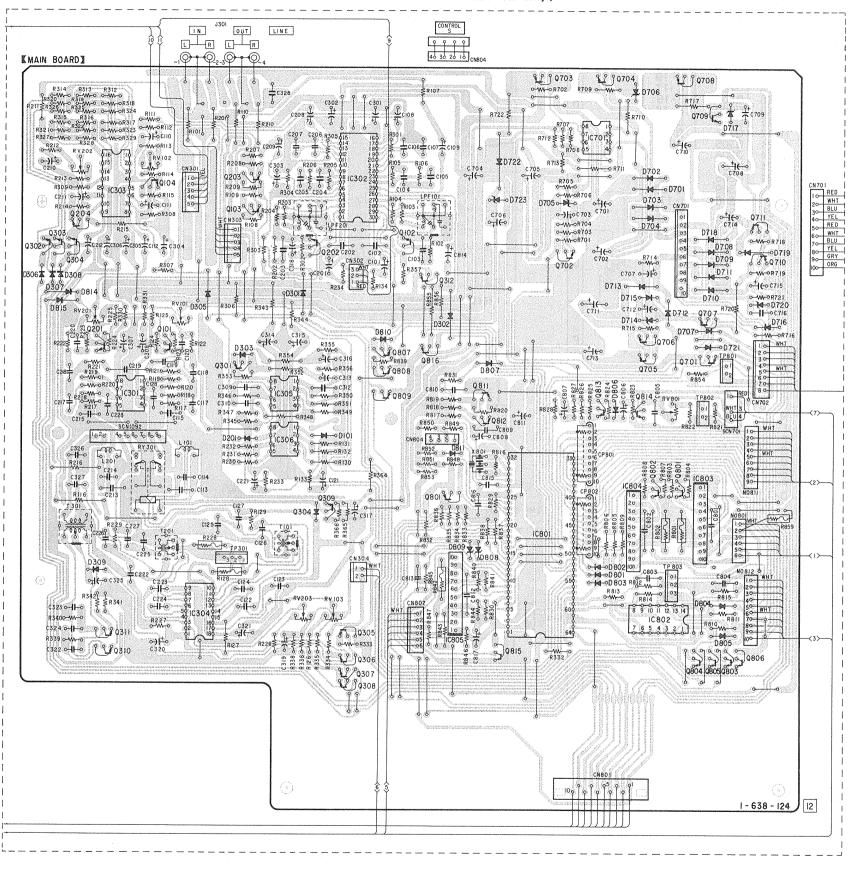


4-2. CIRCUIT BOARDS LOCATION



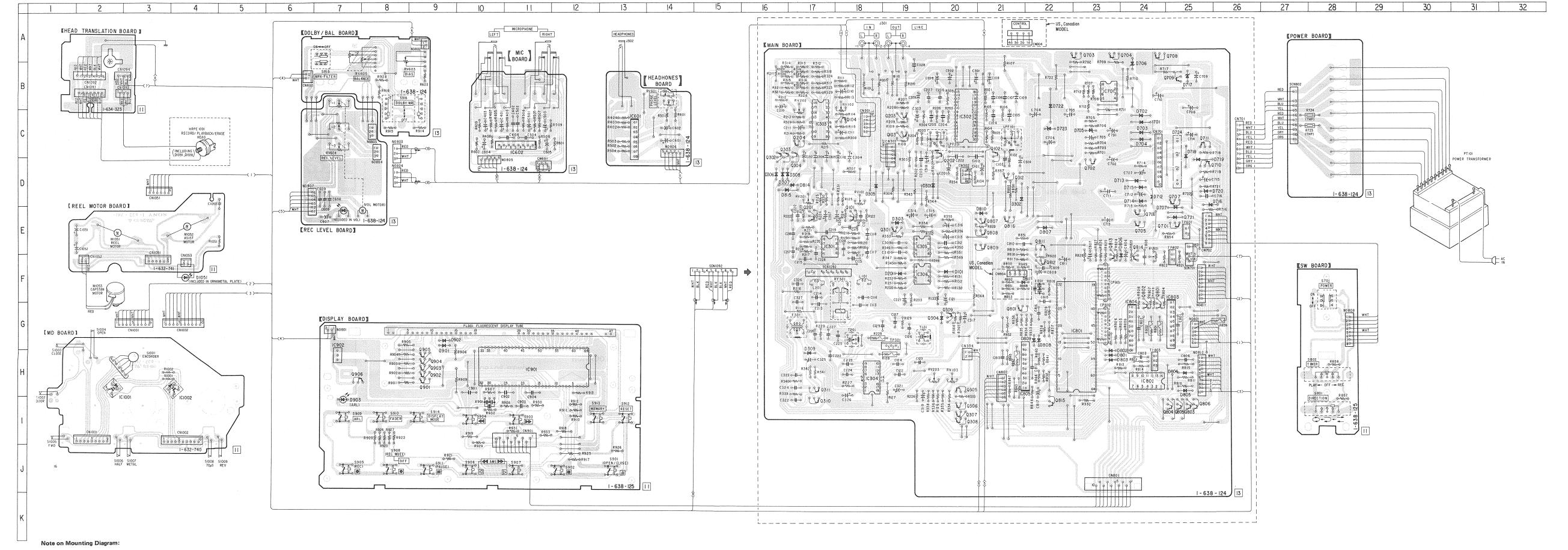
4-3. PRINTED WIRING BOARDS

4-3-1. FORMER TYPE (Main Board US model and Main Board No. 1-638-124-12 only.)



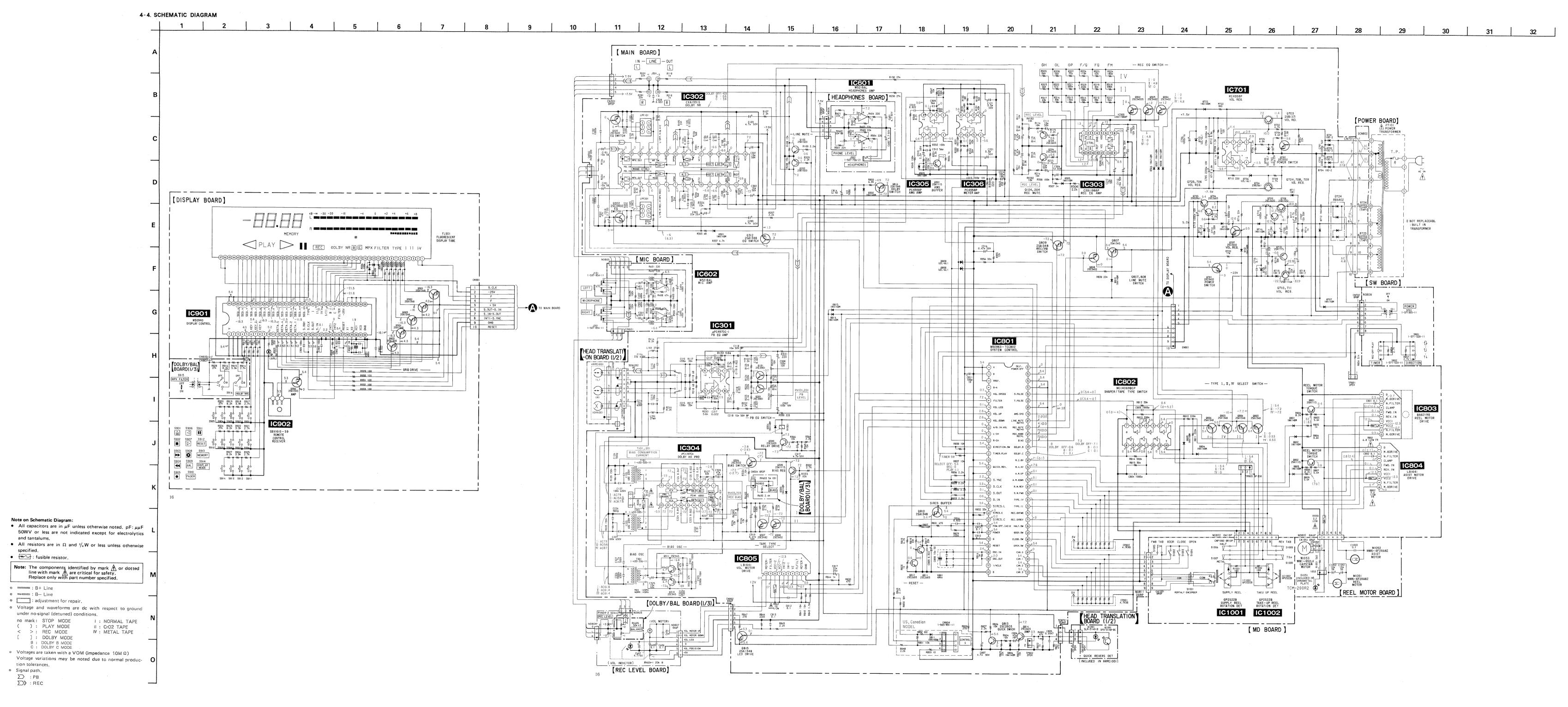
•	Semicondo	uctor	Location
٠	Semicona	uctor	Location

Ref. No.	Location	Ref. No.	Location
D101 D201 D301 D302 D303 D304 D305 D306 D307 D308 D309 D701 D702 D703 D704 D705 D706 D707 D7112 D7113 D7114 D715 D716 D717 D718 D719 D722 D723 D724 D801 D722 D723 D724 D801 D802 D803 D804 D805 D806 D807 D808 D809 D810 D811 D811 D815 D901 D802 D803 D804 D805 D806 D807 D808 D809 D810 D811 D811 D811 D802 D803 D806 D807 D808 D809 D810 D811 D811 D811 D802 D803 D806 D807 D808 D809 D810 D811 D811 D801 D801 D801 D801 D801	2990190866677744443345444445555522253333554222117779974	Q102 Q103 Q104 Q201 Q202 Q203 Q204 Q301 Q303 Q304 Q305 Q306 Q307 Q308 Q310 Q701 Q701 Q701 Q701 Q701 Q701 Q701 Q7	C-C-1987-1997-1997-1997-1997-1997-1997-1997



• o---: parts extracted from the component side.

• []- indicates side identified with part number.



SECTION 5 EXPLODED VIEWS

Items marked "*" are not stocked

since they are seldom required for routine

service. Some delay should be anticipated

NOTE:

- - XX, X mean standardized parts, so they may have some differences from the original one.
- Color Indication of Appearance Parts Example:

KNOB, BALANCE (WHITE)...(RED) Parts color Cabinet's color

- when ordering these items. • The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list is given in the last of this parts list.

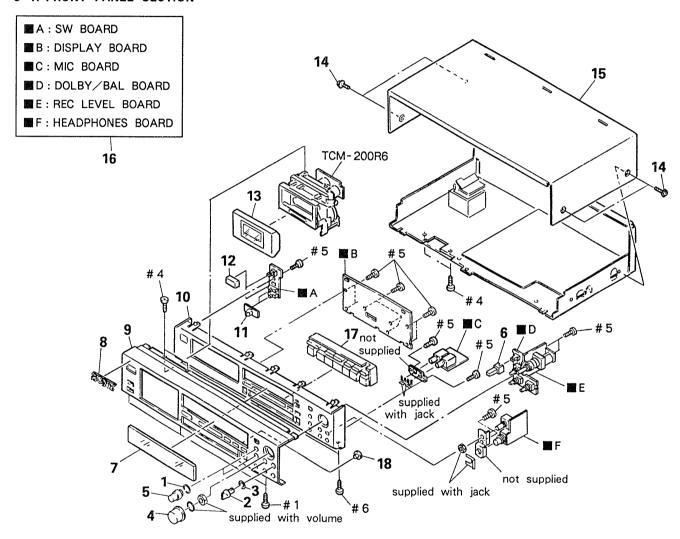
The components identified by mark \(\bullet \) or dotted line with mark \(\bullet \) are critical for safety.

Replace only with part number specified.

Les composants identifiés par une marque A sont critiques pour la sécurité.

Ne les remplacer que par une pièce portant le numéro spécifié.

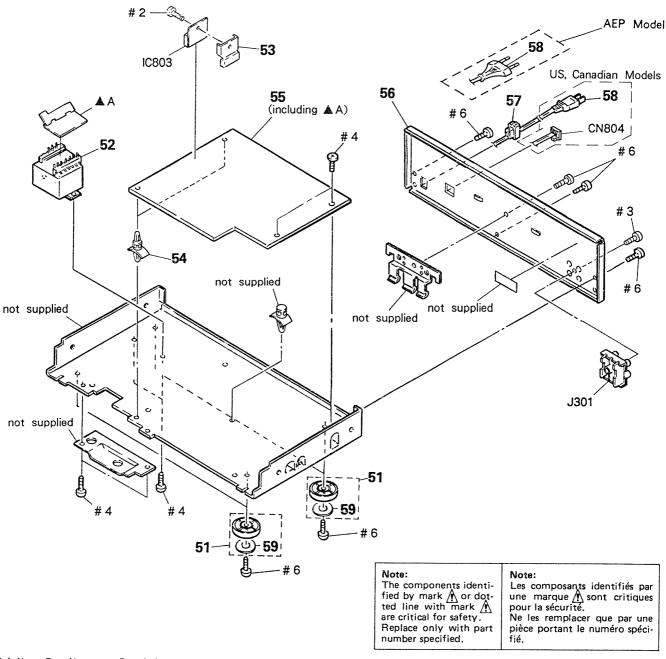
5-1. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	3-356-957-01	SPRING		10	3-367-440-01	PANEL (BASE)	
2	3-350-495-01	KNOB (VOL)		11	4-931-421-11	KNOB (T & S)	
3	3-370-186-01	SPRING (SWPA), RING		12	4-922-921-01	BUTTON (POWER)	
4	X-3362-823-1	KNOB (REC) ASSY		13	X-3362-822-1	LID (B) ASSY, CASSETTE (US, Canadi	an)
5	3-367-431-01	KNOB (BAL)			X-3362-821-1	LID(A) ASSY, CASSETTE (AEP)	
6	3-350-473-01	BUTTON		14	3-363-099-01	SCREW (CASE +3X8 TP2)	
7	3-367-430-01	WINDOW (METER) (US, Canadian)		15	3-332-578-61	CASE	
	3-367-433-11	WINDOW (METER) (AEP)		16	* A-2006-441-A	PANEL BOARD (US. Canadian)	
8	4-908-848-01	EMBLEM, SONY			* A-2006-440-A	PANEL BOARD (AEP)	
9	3-367-439-12	PANEL, FRONT (US, Canadian)		17	3-367-434-01	BUTTON (A)	
	3-367-439-22	PANEL, FRONT (AEP)		18	3-367-428-01	PLATE, INDICATION	

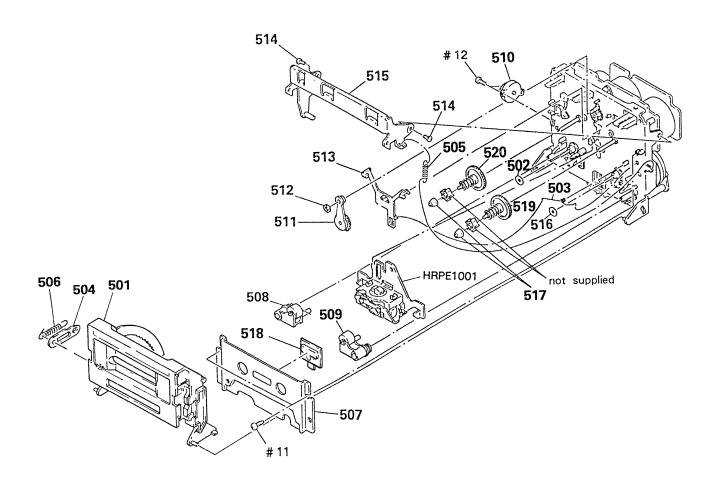
5-2. CHASSIS SECTION

A : POWER BOARD



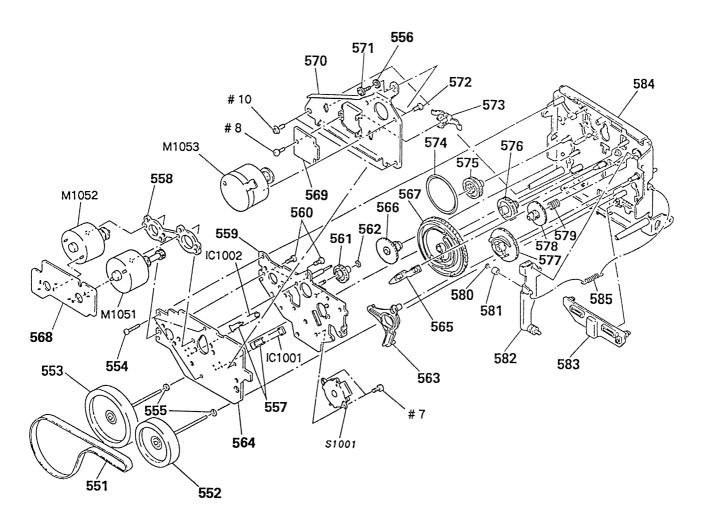
Ref. No	o. Part No.	Description	Remark	Ref. No	. Part No.	Description	Remark
51 52 53 54	X-3304-938-2 <u>1-450-100-11</u> <u>1-450-399-11</u> 3-356-925-01 3-346-265-11	FOOT ASSY TRANSFORMER, POWER (US, Canadian) TRANSFORMER, POWER (AEP) HEAT SINK HOLDER, PC BOARD		57 58 59	* 3-703-571-11 * 3-703-244-00 \(\bar{n}\) 1-551-506-XX \(\bar{n}\) 1-555-795-00 4-923-836-11	BUSHING (S) (4516), CORD (US, Can: BUSHING (2104), CORD (AEP) CORD, POWER (US, Canadian) CORD, POWER, EURO PLUG (AEP) CUSHION	adian)
55 56	* A-2006-438-A * A-2006-439-A * 3-366-791-11 * 3-366-791-31	MAIN BOARD (US, Canadian) MAIN BOARD (AEP) PANEL, BACK (US, Canadian) PANEL BACK (AEP)		CN804 1 C803 J301	1-558-350-31 8-759-973-95 1-573-070-11 1-565-258-11	CORD (WITH CONNECTOR) (US, Canadia IC BA6219B JACK, PIN 4P (LINE) (US, Canadian) JACK, PIN 4P (LINE) (AEP)	an)

5-3. MECHANISM SECTION (TCM-200R6)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
501 502 503 504 505	X-3362-814-1 3-356-714-01 3-356-619-01 * 3-356-717-01 3-356-625-01	HOLDER (CD) ASSY, CASSETTE WASHER SPRING (B), TORSION LEVER (JOINT) SPRING, TENSION		511 512 513 514 515	X-3356-641-1 3-669-465-11 3-356-614-01 3-356-601-11 * X-3356-608-1	LEVER (FR2) ASSY WASHER (1.5), STOPPER SLIDER (BRAKE) SCREW, STEP LEVER (LIFTER) ASSY	
506 507 508 509 510	3-356-626-01 X-3356-613-1 X-3343-456-1 X-3343-455-1 3-712-786-01	SPRING, TENSION PLATE ASSY, ORNAMENTAL LEVER (PINCH R) ASSY LEVER (PINCH F) ASSY DAMPER, OIL	ī	516 517 518 519 520 HRPE1001	3-356-713-01 3-362-308-01 8-719-980-85 X-3356-627-1 X-3356-628-1 A-2003-722-A	WASHER CAP (REEL) DIODE SLF-325C GEAR (T) ASSY GEAR (S) ASSY SLIDER (R4) COMPLETE ASSY	

5-4. MECHANISM SECTION (TCM-200R6)



Ref. No.	Part No.	Description	<u>Remark</u>	Ref. No.	Part No.	Description	Remark
551 552 553 554 555	3-356-730-01 X-3356-642-1 X-3356-643-1 3-355-801-01 3-356-705-01	BELT (CAPSTAN R2) FLYWHEEL (R FWD) ASSY FLYWHEEL (R REV) ASSY SCREW (BTP 2X18) WASHER (CAPSTAN)		571 572 573 574 575	3-356-707-01 4-885-599-00 3-575-321-00 3-356-603-01 3-356-607-01	SCREW (+PTPWH 2X25) SCREW, FITTING, REINFORCEMENT RETAINER, THRUST, CAPSTAN BELT (MODE) PULLEY (MODE)	
557 558	* 3-356-718-01 3-356-631-01 * 3-356-628-01 * X-3356-602-4 3-363-804-01	SPACER (THRUST RETAINER R) HOLDER (SENSOR) SPACER (MOTOR) BRACKET (MOTOR R) ASSY SCREW (+P 2.6X6.5)		576 577 578 579 580	3-356-703-01 3-356-616-01 3-356-609-01 3-356-605-01 3-558-708-11	GEAR (COMMUNICATION C) GEAR (LOADING CAM) GEAR (LOADING) SPRING, COMPRESSION WASHER, STOPPER	
561 562 563 564 565	3-356-702-01 3-669-465-00 3-356-613-01 * 1-632-740-11 3-356-617-01	GEAR (COMMUNICATION B) WASHER (1.5), STOPPER LEVER (MODE) MD BOARD LEVER (SELECTION)		581 582 583 584 585	3-356-630-01 * X-3356-606-1 3-356-612-01 X-3356-634-1 3-356-624-01	ROLLER (LOADING) LEVER (LOADING) ASSY SLIDER (REVERSE) CHASSIS (R2)COMPLETE ASSY, MECH SPRING, TENSION	
569	3-356-606-01 3-356-615-01 * 1-632-741-11 * 1-634-323-11 * 3-356-629-01	GEAR (MODE) GEAR (MODE CAM RR) REAL MOTOR BOARD TRANSLATION BOARD BRACKET (THRUST RETAINER R)		IC1001 IC1002 M1051 M1052 M1053 S1001	8-749-920-97 8-749-920-97 X-3356-638-1 X-3356-604-1 X-3356-646-1 1-466-525-11	IC PHOTO REFLECTOR GP2S22B IC PHOTO REFLECTOR GP2S22B MOTOR (REEL R) ASSY MOTOR (ASSIST) ASSY MOTOR (CAPSTAN V1) ASSY ENCODER, ROTARY	

SECTION 5 ELECTRICAL PARTS LIST

TRANSLATION MD MAIN

NOTE:

The components identified by mark \bigwedge or dotted line with mark \bigwedge are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque \bigwedge sont critiques pour la sécurité.

Ne les remplacer que par une pièce portant le numéro spécifé.

When indicating parts by reference number, please include the board name.

- Due to standardization, replacements in the parts list may be defferent from the parts specified in the diagrams or the components used on the set.
- XX, X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
 All resistors are

All resistors are in ohms.

METAL: metal-film resistor

METAL OXIDE: Metal Oxide-film resistor

F: nonflammable

- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
 - SEMICONDUCTORS
 In each case, u: µ, for example:
 uA...: µA..., uPA..., µPA...,
 uPB..., µPB..., uPC..., µPC...,
 uPD..., µPD...
- CAPACITORS:

uF: μF

• COILS uH: μH

L									
Ref. No	. Part No.	Description	Remark	Ref. No.	Part No.	Description			Remark
	* 1-634-323-11	TRANSLATION BOARD				<pre>〈 CAPACITOR 〉</pre>			
		***********		C101	1-124-907-11	ELECT	10uF	20%	50V
		(CONNECTOR)		C102	1-162-294-31	CERAMIC	0. 001uF	10%	50V
		,,		C103	1-161-375-00	CERAMIC	0. 0022uF	20%	50V
CN1091	* 1-564-709-11	PIN, CONNECTOR (SMALL TYPE) 7P		C104	1-130-475-00	MYLAR	0. 0022uF	5%	50V
CN1092	* 1-564-509-11	PLUG, CONNECTOR 6P	-	C105	1-130-475-00	MYLAR	0. 0022uF	5%	50V
CN1093	* 1-564-705-11	PIN, CONNECTOR (SMALL TYPE) 3P	1						
CN1094	* 1-564-506-11	PLUG, CONNECTOR 3P		C106	1-136-174-00	FILM	0. 56uF	5%	50V
				C107	1-136-171-00	FILM	0. 33uF	5%	50V
*****	**********	***************	******	C108	1-124-907-11	ELECT	10uF	20%	50V
	+ 1 000 740 11	MD BOARD		C109	1-124-927-11	ELECT	4. 7uF 0. 47uF	20% 20%	100V 50V
	* 1-632-740-11	*******		C110	1-124-902-00	ELECT	0. 47ur	20%	501
			-	C111	1-124-907-11	ELECT	10uF	20%	50V
	3-356-631-01	HOLDER (SENSOR)		C112	1-124-907-11	ELECT	10uF	20%	50V
				C113	1-162-285-31	CERAMIC	180PF	10%	50V
		⟨ CONNECTOR ⟩		C114	1-136-935-11	FILM	22PF	5%	630V
				C115	1-164-736-31	CERAMIC	0. 0012uF	10%	50V
CN1001	1-506-615-11	PIN, CONNECTOR 9P							
CN1002	* 1-564-502-11	PIN, CONNECTOR 10P		C117	1-136-157-00	FILM	0. 022uF	5%	50V
			1	C118	1-124-657-00	ELECT	10uF	20%	
		< 1C >		C119	1-161-494-00	CERAMIC	0. 022uF	F6/	25V
	0.740.000.07	IA DUATA DESI SATAD ADAAAAD		C120	1-136-158-00	FILM	0. 027uF	5%	50V
IC1001 IC1002	8-749-920-97 8-749-920-97	IC PHOTO REFLECTOR GP2S22B IC PHOTO REFLECTOR GP2S22B		C121	1-123-382-00	ELECT	3. 3uF	20%	100V
101002	0 143 320 31	TO THOTO HELLECTON GIZGZZD	1	C122	1-136-153-00	FILM	0. 01uF	5%	50V
		⟨ RESISTOR ⟩	Ì	C123	1-136-157-00	FILM	0. 022uF	5%	50V
		,,	-	C124	1-136-161-00	FILM	0. 047uF	5%	50V
R1001	1-249-408-11	CARBON 180 5% 1/4W	¥ _	C125	1-136-272-00	FILM	68PF	5%	630V
R1002	1-249-408-11	CARBON 180 5% 1/4W	Y	C126	1-130-468-00	MYLAR	560PF	5%	50V
		(SWITCH)		C127	1-136-433-11	FILM	100PF	5%	630V
		·		C128	1-162-282-31	CERAMIC	100PF	10%	50V
S1001	1-466-237-11	ENCODER, ROTARY		C201	1-124-907-11	ELECT	10uF	20%	50V
S1002	1-570-953-11	SWITCH, PUSH (1 KEY)		C202	1-162-294-31	CERAMIC	0. 001uF	10%	50V
S1003	1-571-958-11	SWITCH, PUSH (1 KEY)		C203	1-161-375-00	CERAMIC	0. 0022uF	20%	50V
S1004	1-572-126-11	SWITCH, PUSH (1 KEY)							
S1005	1-572-125-11	SWITCH, LEAF		C204	1-130-475-00	MYLAR	0. 0022uF	5%	50V
21000	1_57220211	CWITCH LEVE		C205	1-130-475-00	MYLAR	0.0022uF	5% 5%	50V
S1006 S1007	1-572-202-11 1-572-125-11	SWITCH, LEAF SWITCH, LEAF	1	C206	1-136-174-00 1-136-171-00	FILM Film	0. 56uF	5% 5%	50V 50V
S1007 S1008	1-572-125-11	SWITCH, LEAF		C207 C208	1-124-907-11	ELECT	0. 33uF 10uF	5% 20%	50V 50V
S1000	1-572-125-11	SWITCH, LEAF	1	0200	1 124 301-11	LLLUI	i vui	20/0	JU 1
31003	1 312 123 11	On I I On LEAR		C209	1-124-927-11	ELECT	4. 7uF	20%	100V
		〈 CONNECTOR 〉		C210	1-124-902-00	ELECT	0. 47uF	20%	50V
				C211	1-124-907-11	ELECT	10uF	20%	50V
TB1001	* 1-569-066-11	PIN, CONNECTOR 5P	· ·	C212	1-124-907-11	ELECT	10uF	20%	50V
			-	C213	1-162-285-31	CERAMIC	180PF	10%	50V
*****	******	***************	******				****	mc*	
	* 1 0000 100 1	MAIN DOADD (for to the A.A.)		C214	1-136-935-11	FILM	22PF	5%	630V
	* A-2006-438-A	MAIN BOARD (including AA)		C215	1-164-736-31	CERAMIC	0. 0012uF	10%	50V
		*********	-	C217	1-136-157-00	FILM	0. 022uF	5% 20%	50V
	* 3-356-925-01	HEAT SINK		C218 C219	1-124-657-00 1-161-494-00	ELECT CERAMIC	10uF 0. 022uF	20%	50V 25V
	7-682-547-04	SCREW +BVTT 3X6 (S)	1	0413	1-101-434-00	CLIMMIC	v. vzzur		7.34
	1 002 341 04	OUNCE IDITI ONU (O)							

Ref. No.	Part No.	Description			Remark	<u> </u>	Ref. No.	Part No.	<u>Description</u>				<u>Remark</u>
C220 C221 C222 C223 C224	1-136-158-00 1-123-382-00 1-136-153-00 1-136-157-00 1-136-161-00	FILM ELECT FILM FILM FILM	0. 027uF 3. 3uF 0. 01uF 0. 022uF 0. 047uF	5% 20% 5% 5% 5%	50V 100V 50V 50V 50V		C709 C710 C711 C712 C713	1-124-907-11 1-124-360-00 1-124-887-00 1-124-907-11 1-124-473-11	ELECT ELECT ELECT ELECT	10uF 1000uF 3300uF 10uF 1000uF	20% 20% 20% 20% 20%	50V 16V 16V 50V 10V	
C225 C226 C227 C228 C301	1-136-272-00 1-130-468-00 1-136-433-11 1-162-282-31 1-124-907-11	FILM MYLAR FILM CERAMIC ELECT	68PF 560PF 100PF 100PF 10uF	5% 5% 5% 10% 20%	630V 50V 630V 50V 50V		C714 C715 C716 C801 C802	1-124-122-11 1-124-910-11 1-164-159-11 1-164-159-11 1-164-159-11	ELECT ELECT CERAMIC CERAMIC CERAMIC	100uF 47uF 0. 1uF 0. 1uF 0. 1uF	20% 20%	50V 50V 50V 50V 50V	
C302 C303 C304 C305 C306	1-124-907-11 1-126-233-11 1-124-903-11 1-124-907-11 1-124-907-11	ELECT ELECT ELECT ELECT ELECT	10uF 22uF 1uF 10uF 10uF	20% 20% 20% 20% 20%	50V 50V 50V 50V 50V		C803 C804 C805 C806 C807	1-162-294-31 1-162-294-31 1-161-377-00 1-124-477-11 1-124-927-11	CERAMIC CERAMIC CERAMIC ELECT ELECT	0. 001uF 0. 001uF 0. 0047uF 47uF 4. 7uF	10% 10% 30% 20% 20%	50V 50V 16V 25V 100V	
C307 C308 C309 C310 C312	1-124-443-00 1-124-443-00 1-162-217-31 1-161-494-00 1-162-217-31	ELECT ELECT CERAMIC CERAMIC CERAMIC	100uF 100uF 56PF 0. 022uF 56PF	20% 20% 5% 5%	10V 10V 50V 25V 50V		C808 C809 C810 C811 C812	1-124-907-11 1-161-494-00 1-164-159-11 1-124-443-00 1-164-159-11	ELECT CERAMIC CERAMIC ELECT CERAMIC	10uF 0. 022uF 0. 1uF 100uF 0. 1uF	20%	50V 25V 50V 10V 50V	
C313 C314 C315 C316 C317	1-124-925-11 1-124-443-00 1-124-443-00 1-124-902-00 1-124-927-11	ELECT ELECT ELECT ELECT ELECT	2. 2uF 100uF 100uF 0. 47uF 4. 7uF	20% 20% 20% 20% 20% 20%	100V 10V 10V 50V 100V		C813 C814 C815 C816 C817	1-164-159-11 1-124-903-11 1-164-159-11 1-161-494-00 1-126-233-11	CERAMIC ELECT CERAMIC CERAMIC ELECT	0. 1uF 1uF 0. 1uF 0. 022uF 22uF	20%	50V 25V	
C318 C319 C320 C321 C322	1-124-925-11 1-124-902-00 1-124-477-11 1-124-477-11 1-136-230-00	ELECT ELECT ELECT ELECT FILM	2. 2uF 0. 47uF 47uF 47uF 0. 0022uF	20% 20% 20% 20% 20% 5%	100V 50V 25V 25V 100V		CN301 CN302 CN303 CN304	* 1-564-339-61 * 1-564-705-11 * 1-564-339-00 * 1-564-336-00	CONNECTOR > PIN, CONNECTO PIN, CONNECTO PIN, CONNECTO PIN, CONNECTO PIN, CONNECTO	R (SMALL TY R 5P	YPE) 3	IP	
C323 C324 C325 C326 C327	1-136-230-00 1-130-856-00 1-124-907-11 1-136-558-11 1-107-046-00	FILM FILM ELECT FILM MICA	0. 0022uF 0. 0068uF 10uF 0. 0039uF 4. 7PF	5% 5% 20% 5%	100V 100V 50V 630V 500V		CN601 CN602 CN701 CN702 CN801	* 1-564-705-11 * 1-564-336-00 * 1-564-513-11 * 1-564-342-11 * 1-580-784-11	PIN, CONNECTO PIN, CONNECTO PLUG, CONNECTO PIN, CONNECTO CONNECTOR, BO	R (SMALL TY R 2P OR 10P R 8P		IP	
C328 C401 C402 C403 C404	1-161-494-00 1-124-903-11 1-162-292-31 1-124-903-11 1-162-282-31	CERAMIC ELECT CERAMIC ELECT CERAMIC	0. 022uF 1uF 680PF 1uF 100PF	20% 10% 20% 10%	25V 50V 50V 50V 50V		CN802 CN804	* 1-564-340-00 1-558-350-31	PIN, CONNECTO CORD (WITH CO COMPOSITION	NNECTOR) (US			
C501 C502 C503 C504 C601	1-124-903-11 1-162-292-31 1-124-903-11 1-162-282-31 1-124-927-11	ELECT CERAMIC ELECT CERAMIC ELECT	1uF= 680PF 1uF 100PF 4. 7uF	20% 10% 20% 10% 20%	50V		CP801 CP802	1-233-204-11 1-233-204-11	COMPOSITION C COMPOSITION C	IRCUIT BLOO			
C602 C604 C605 C606 C607	1-124-927-11 1-124-443-00 1-124-443-00 1-164-159-11 1-124-927-11	ELECT ELECT ELECT CERAMIC ELECT	4. 7uF 100uF 100uF 0. 1uF 4. 7uF	20% 20%			D101 D201 D301 D302 D303	8-719-912-20 8-719-912-20 8-719-912-20 8-719-912-20 8-719-912-20	DIODE 1SS12 DIODE 1SS12 DIODE 1SS12 DIODE 1SS12 DIODE 1SS12	0 0 0 0			
C608 C609 C701 C702 C703	1-164-159-11 1-164-159-11 1-124-556-11 1-124-556-11 1-124-478-11	CERAMIC CERAMIC ELECT ELECT ELECT	0. 1uF 0. 1uF 2200uF 2200uF 100uF	20% 20% 20%	16V		D304 D305 D306 D307 D308	8-719-912-20 8-719-912-20 8-719-912-20 8-719-912-20 8-719-912-20	DIODE 1SS12 DIODE 1SS12 DIODE 1SS12 DIODE 1SS12 DIODE 1SS12	0 0 0 0			
C704 C705 C706 C707 C708	1-124-893-11 1-124-893-11 1-124-360-00 1-124-907-11 1-124-564-11	ELECT ELECT ELECT ELECT ELECT	2200uF 2200uF 1000uF 10uF 4700uF	20% 20% 20% 20% 20%	10V 16V 50V		D309 D701 D702 D703 D704	8-719-912-20 8-719-200-77 8-719-200-77 8-719-200-77 8-719-200-77	DIODE 1SS12 DIODE 10E2N DIODE 10E2N DIODE 10E2N DIODE 10E2N				

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	<u>Description</u>		Remark
D705	8-719-933-33	DIODE HZS6A1L				(COIL)		
D706 D707 D712	8-719-933-33 8-719-912-20 8-719-912-20	D10DE HZS6A1L D10DE 1SS120 D10DE 1SS120		L101 L201	1-410-780-11 1-410-780-11	INDUCTOR INDUCTOR	27mH 27mH	
D713	8-719-200-31	DIODE 21DQ05		LZVI	1-410-700-11	(FILTER)	2 / mn	
D714 D715	8-719-933-43 8-719-912-20	DIODE HZS7A1L DIODE 1SS120		LPF101	1-236-475-11	FILTER, LOW	PASS	
D716 D717	8-719-912-20 8-719-001-70	DIODE 1SS120 DIODE UZL-12M1		LPF201	1-236-475-11	FILTER, LOW		
D718	8-719-200-77	DIODE 10E2N				(TRANSISTO	₹ >	
D719 D720	8-719-200-77 8-719-000-93	DIODE 10E2N DIODE UZL-7H1		Q101 Q102	8-729-900-74 8-729-900-80	TRANSISTOR TRANSISTOR	DTC143TS DTC114ES	
D721 D722	8-719-912-20 8-719-912-20	DIODE 1SS120 DIODE 1SS120		Q103 Q104	8-729-142-25 8-729-620-05	TRANSISTOR TRANSISTOR	2SD1020HFE 2SC2603-EF	
D723	8-719-933-33	DIODE HZS6A1L		0201	8-729-900-74	TRANSISTOR	DTC143TS	
D724 D801	8-719-312-09 8-719-912-20	DIODE RBA-402 DIODE 1SS120		Q202 Q203	8-729-900-80 8-729-142-25	TRANSISTOR TRANSISTOR	DTC114ES 2SD1020HFE	
D802	8-719-912-20	DIODE 1SS120		0204	8-729-620-05	TRANSISTOR	2SC2603-EF	
D803	8-719-912-20	DIODE 1SS120		0301	8-729-119-76	TRANSISTOR	2SA1175-HFE	
D804	8-719-912-20	DIODE 1SS120		0302	8-729-900-80	TRANSISTOR	DTC114ES	
D805 D806	8-719-912-20 8-719-912-20	DIODE 1SS120 DIODE 1SS120		0303 0304	8-729-900-80 8-729-900-80	TRANSISTOR TRANSISTOR	DTC114ES DTC114ES	
D807	8-719-912-20	D10DE 1\$\$120		Q305	8-729-119-76	TRANSISTOR	2SA1175-HFE	
D808 D809	8-719-933-33 8-719-933-33	DIODE HZS6A1L DIODE HZS6A1L		0306 0307	8-729-900-80 8-729-900-80	TRANSISTOR TRANSISTOR	DTC114ES DTC114ES	
D810 D811	8-719-912-20 8-719-912-20	DIODE 1SS120 DIODE 1SS120 (US, Canadian)		0308 0309	8-729-900-80 8-729-620-05	TRANSISTOR TRANSISTOR	DTC114ES 2SC2603-EF	
D814	8-719-912-20	DIODE 1SS120		0310	8-729-194-57	TRANS1STOR	2SC945-P	
D815	8-719-912-20	DIODE 1SS120		0311 0312	8-729-194-57	TRANSISTOR	2SC945-P	
		(IC)		0701	8-729-900-61	TRANSISTOR	DTA114ES	
IC301	8-759-111-44	IC uPC4570C-1		Q702	8-729-900-80 8-729-900-80	TRANSISTOR TRANSISTOR	DTC114ES DTC114ES	
10302	8-752-035-94	IC CXA1331S		0703	8-729-924-90	TRANSISTOR	2SB1370-EF	
1C303 1C304	8-752-038-02 8-759-106-56	IC CXA1198AP IC uPC1297CA		0704 0705	8-729-111-55 8-729-111-55	TRANSISTOR TRANSISTOR	2SD2061-E, F 2SD2061-E, F	
1C305	8-759-945-58	IC RC4558P		0706	8-729-620-05	TRANSISTOR	2SC2603-EF	
10306	8-759-945-58	IC RC4558P		Q707	8-729-900-80	TRANSISTOR	DTC114ES	
IC601	8-759-634-50	IC M5218AL		0708	8-729-924-90	TRANSISTOR	2SB1370-EF	
1C602 1C701	8-759-634-50 8-759-945-58	IC M5218AL IC RC4558P		0709 0710	8-729-620-05 8-729-119-76	TRANSISTOR TRANSISTOR	2SC2603-EF 2SA1175-HFE	
1C801	8-759-636-61	1C M50963-246SP						
10802	8-759-240-69	IC TC4069UBP		0711 0801	8-729-140-04 8-729-119-76	TRANSISTOR TRANSISTOR	2SB1116A-L 2SA1175-HFE	
10803	8-759-973-95	IC BA6219B		0802	8-729-119-76	TRANSISTOR	2SA1175-HFE	
1C804 1C805	8-759-822-09 8-759-822-09	IC LB1641 IC LB1641		0803 0804	8-729-900-61 8-729-900-61	TRANSISTOR TRANSISTOR	DTA114ES DTA114ES	
.0000	0 100 022 00	〈 JACK 〉		Q805	8-729-900-61	TRANSISTOR	DTA114ES	
				Q806	8-729-900-61	TRANSISTOR	DTA114ES	
J101	1-507-854-21	JACK, LARGE TYPE (MICROPHONE LEFT)	1	0807	8-729-900-65	TRANSISTOR	DTA144ES	
	1-507-854-00	(US, Canadiar JACK, LARGE TYPE (MICROPHONE LEFT)		0808 0809	8-729-900-80 8-729-900-61	TRANSISTOR TRANSISTOR	DTC114ES DTA114ES	
J201	1-507-854-21	JACK, LARGE TYPE (MICROPHONE RIGHT		0810	8-729-900-61	TRANSISTOR	DTA114ES	
	1-507-854-00	(US, Canadiar JACK, LARGE TYPE (MICROPHONE RIGHT)	- 1	Q811 Q812	8-729-620-05 8-729-620-05	TRANSISTOR TRANSISTOR	2SC2603-EF 2SC2603-EF	
				Q813	8-729-620-05	TRANSISTOR	2SC2603-EF	
J301	1-573-070-11 1-565-258-11	JACK, PIN 4P (LINE) (US, Canadian) JACK, PIN 4P (LINE) (AEP)		Q814	8-729-620-05	TRANSISTOR	2SC2603-EF	
J302	1-507-796-71	JACK (HEADPHONES)		0815 0816	8-729-900-61 8-729-900-61	TRANSISTOR TRANSISTOR	DTA114ES DTA114ES	

Ref. No.	Part No.	Description				Remark	Ref. No.	Part No.	Description				Remark
		<pre>⟨ RESISTOR ⟩</pre>					R222	1-249-421-11	CARBON	2. 2K	5%	1/4W	
D1 A1	1 040 400 11	CARRON	201	F8/	1 /AW		R223	1-247-840-00	CARBON	2. 4K	5%	1/4₩	
R101	1-249-433-11	CARBON	22K	5%	1/4W		R224	1-247-887-00	CARBON	220K	5%	1/4₩	
R102	1-247-887-00	CARBON	220K	5%	1/4₩		R225	1-249-421-11	CARBON	2. 2K	5%	1/4₩	
R103	1-249-423-11	CARBON	3. 3K	5%	1/4W		R226	1-247-858-11	CARBON	13K	5%	1/4W	
R104	1-249-428-11	CARBON	8. 2K	5%	1/4W		2007		A + DD A + 1	2011			
R105	1-247-864-11	CARBON	24K	5%	1/4W		R227	1-249-435-11	CARBON	33K	5%	1/4W	_
							R228	1-219-153-11	FUSIBLE	10	5%	1/4₩	F
R106	1-249-414-11	CARBON	560	5%	1/4W		R229	1-247-883-00	CARBON	150K	5%	1/4₩	
R107	1-249-421-11	CARBON	2. 2K	5%	1/4W		R230	1-249-434-11	CARBON	27K	5%	1/4₩	
R108	1-249-431-11	CARBON	15K	5%	1/4₩		R231	1-247-870-11	CARBON	43K	5%	1/4¥	
R109	1-249-421-11	CARBON	2. 2K	5%	1/4W								
R110	1-249-417-11	CARBON	1K	5%	1/4W		R232	1-247-868-11	CARBON	36K	5%	1/4¥	
							R233	1-249-408-11	CARBON	180	5%	1/4₩	
R111	1-249-429-11	CARBON	10K	5%	1/4W		R234	1-249-417-11	CARBON	1K	5%	1/4₩	
R112	1-249-424-11	CARBON	3. 9K	5%	1/4W		R301	1-249-417-11	CARBON	1K	5%	1/4W	
R113	1-249-421-11	CARBON	2. 2K	5%	1/4W		R302	1-249-437-11	CARBON	47K	5%	1/4W	
R114	1-249-429-11	CARBON	10K	5%	1/4W							•	
R115	1-249-421-11	CARBON	2. 2K	5%	1/4W		R303	1-249-403-11	CARBON	68	5%	1/4₩	
		******		•	.,		R304	1-249-429-11	CARBON	10K	5%	1/4W	
R116	1-249-428-11	CARBON	8. 2K	5%	1/4W		R305	1-215-455-00	METAL	27K	1%	1/6W	
R117	1-249-435-11	CARBON	33K	5%	1/4W		R306	1-249-421-11	CARBON	2. 2K	5%	1/4W	
R118	1-249-403-11	CARBON	68	5%	1/4W		R307	1-249-417-11	CARBON	1K	5%	1/4W	
R119	1-247-882-11	CARBON	130K	5%	1/4W		1.001	1 270 711 11	VALLEVII	IN	J/0	1/411	
R120	1-249-426-11	CARBON	5. 6K	5%	•		R308	124044111	CADDON	1007	E#/	1 /AW	
11140	1 243-420-11	OUIDOU	J. UN	3/6	1/4W		R308	1-249-441-11 1-247-864-11	CARBON CARBON	100K 24K	5% 5%	1/4₩ 1/4₩	
R121	1-249-421-11	CARBON	2. 2K	5%	1/4W								
R121	1-249-421-11	CARBON					R312	1-249-438-11	CARBON	56K	5%	1/4₩	
			2. 2K	5%	1/4W		R313	1-249-436-11	CARBON	39K	5%	1/4₩	
R123	1-247-840-00	CARBON	2. 4K	5%	1/4W		R314	1-247-885-00	CARBON	180K	5%	1/4W	
R124	1-247-887-00	CARBON	220K	5%	1/4₩				******				
R125	1-249-421-11	CARBON	2. 2K	5%	1/4W		R315	1-247-882-11	CARBON	130K	5%	1/4W	
							R316	1-249-436-11	CARBON	39K	5%	1/4W	
R126	1-247-858-11	CARBON	13K	5%	1/4W		R317	1-247-870-11	CARBON	43K	5%	1/4₩	
R127	1-249-435-11	CARBON	33K	5%	1/4₩		R318	1-247-893-11	CARBON	390K	5%	1/4₩	
	<u></u> 1-219-153-11	FUSIBLE	10	5%	1/4W	F	R319	1-247-866-11	CARBON	30K	5%	1/4₩	
R129	1-247-883-00	CARBON	150K	5%	1/4W								
R130	1-249-434-11	CARBON	27K	5%	1/4W		R320	1-247-888-11	CARBON	240K	5%	1/4W	
							R321	1-247-890-11	CARBON	300K	5%	1/4₩	
R131	1-247-870-11	CARBON	43K	5%	1/4W		R322	1-247-872-11	CARBON	51K	5%	1/4W	
R132	1-247-868-11	CARBON	36K	5%	1/4W		R323	1-249-438-11	CARBON	56K	5%	1/4W	
R133	1-249-408-11	CARBON	180	5%	1/4W		R324	1-247-885-00	CARBON	180K	5%	1/4W	
R134	1-249-417-11	CARBON	1K	5%	1/4W								
R201	1-249-433-11	CARBON	22K	5%	1/4W		R325	1-247-870-11	CARBON	43K	5%	1/4¥	
							R326	1-247-880-11	CARBON	110K	5%	1/4W	
R202	1-247-887-00	CARBON	220K	5%	1/4W		R327	1-247-876-11	CARBON	75K	5%	1/4W	
R203	1-249-423-11	CARBON	3. 3K	5%	1/4W		R328	1-249-438-11	CARBON	56K	5%	1/4W	
R204	1-249-428-11	CARBON	8. 2K	5%	1/4W		R329	1-249-438-11	CARBON	56K	5%	1/4W	
R205	1-247-864-11	CARBON	24K	5%	1/4₩			. 2.0 700 11	V VII	5511	3/0	., 411	
R206	1-249-414-11	CARBON	560	5%	1/4W		R330	1-249-409-11	CARBON	220	5%	1/4¥	
	, 2.5 313 11	J		3/0	., -,,		R331	1-249-409-11	CARBON	220	5%	1/4W	
R207	1-249-421-11	CARBON	2. 2K	5%	1/4W		R332	1-249-422-11	CARBON	2. 7K		1/4W	
R208	1-249-431-11	CARBON	15K	5%	1/4W		R333	1-249-429-11	CARBON	10K	5%	1/4W	
R209	1-249-421-11	CARBON	2. 2K	5%	1/4W		R334	1-247-836-11	CARBON	1. 6K	5%	1/4₩	
R210	1-249-417-11	CARBON	1K	5%	1/4W		11004	1 247 000 11	OANDON	I. UK	3/0	1/40	
R211	1-249-429-11	CARBON	10K	5%	1/4W		R335	1-249-422-11	CARBON	2. 7K	5%	1/4₩	
11211	1 243 423 11	CANDON	IUN	3/6	1/411								
R212	1-249-424-11	CARBON	3 UV	E0/	1/4W		R336	1-249-428-11	CARBON	8. 2K	5% 5%	1/4₩	
			3. 9K	5%	· .		R338	1-249-441-11	CARBON	100K	5%	1/4W	
R213	1-249-421-11	CARBON	2. 2K	5% 5%	1/4W		R339	1-249-437-11	CARBON	47K	5%	1/4W	
R214	1-249-429-11	CARBON	10K	5%	1/4W		R340	1-249-437-11	CARBON	47K	5%	1/4¥	
R215	1-249-421-11	CARBON	2. 2K	5%	1/4W		2015	4 040 000 1:	0.4000::		-41		
R216	1-249-428-11	CARBON	8. 2K	5%	1/4W		R341	1-249-389-11	CARBON	4. 7	5%	1/4₩	
2017	4 444	A.m.a.:					R342	1-249-389-11	CARBON	4. 7	5%	1/4W	
R217	1-249-435-11	CARBON	33K	5%	1/4W		R343	1-249-409-11	CARBON	220	5%	1/4W	
R218	1-249-403-11	CARBON	68	5%	1/4W		R344	1-249-409-11	CARBON	220	5%	1/4W	
R219	1-247-882-11	CARBON	130K	5%	1/4W		R345	1-249-441-11	CARBON	100K	5%	1/4₩	
R220	1-249-426-11	CARBON	5. 6K	5%	1/4W								
R221	1-249-421-11	CARBON	2. 2K	5%	1/4W		R346	1-249-441-11	CARBON	100K	5%	1/4W	
					.,		R347	1-249-429-11	CARBON	10K	5%	1/4W	
							R348	1-249-428-11	CARBON	8. 2K	5%	1/4W	
							R349	1-249-441-11	CARBON	100K	5%	1/4W	
							11043	1 443 441-11	OUIDOIL	IUUN	J/0	1/47	
							R350	1-249-441-11	CARBON	100K	5%	1/4¥	

Note:
The components identified by mark A or dotted line with mark are critical for safety.
Replace only with part number specified.

Note:
Les composants identifiés par une marque A sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

												<u> </u>	
Ref. No	o. Part No.	Description				<u>Remark</u>	Ref. No.	Part No.	Description				Remark
R351	1-249-423-11	CARBON	3. 3K	5%	1/4W		R805	1-249-417-11	CARBON	1K	5%	1/4W	
R352	1-249-429-11	CARBON	10K	5%	1/4W		R806	1-247-844-11	CARBON	3. 6K	5% 5%	1/4W	
R353	1-249-429-11	CARBON	10K	5%	1/4W		R807	1-249-426-11	CARBON	5. 6K	5%	1/4W	
R354	1-249-417-11	CARBON	1K	5%	1/4W		R808	1-249-428-11	CARBON	8. 2K	5%	1/4W	
R355	1-249-430-11	CARBON	12K	5%	1/4₩		R809	1-249-426-11	CARBON	5. 6K	5%	1/4W	
11000	1 243 430 11	CANDON	IZN	3/0	1/411		11003	1 243 420 11	CANDON	J. UK	3/8	1/411	
R356	1-249-435-11	CARBON	33K	5%	1/4W		R810	1-247-887-00	CARBON	220K	5%	1/4W	
R357	1-249-425-11	CARBON	4. 7K	5%	1/4W		R811	1-247-887-00	CARBON	220K	5%	1/4W	
R364	1-249-421-11	CARBON	2. 2K	5%	1/4W		R812	1-249-436-11	CARBON	39K	5%	1/4W	
R365	1-249-431-11	CARBON	15K	5%	1/4₩		R813	1-247-891-00	CARBON	330K	5%	1/4W	
R366	1-249-429-11	CARBON	10K	5%	1/4W		R814	1-247-891-00	CARBON	330K	5%	1/4W	
												-	
R401	1-249-433-11	CARBON	22K	5%	1/4W		R815	1-249-436-11	CARBON	39K	5%	1/4₩	
R402	1-249-421-11	CARBON	2. 2K	5%	1/4W		R816	1-247-903-00	CARBON	1M	5%	1/4₩	
R403	1-249-433-11	CARBON	22K	5%	1/4W		R817	1-249-435-11	CARBON	33K	5%	1/4W	
R404	1-249-409-11	CARBON	220	5%	1/4W		R818	1-249-435-11	CARBON	33K	5%	1/4W	
R405	1-249-441-11	CARBON	100K	5%	1/4W		R819	1-249-425-11	CARBON	4. 7K	5%	1/4W	
R406	1-249-429-11	CARBON	10K	5%	1/4W		R820	1-249-417-11	CARBON	1K	5%	1/4₩	
R407	1-249-411-11	CARBON	330	5%	1/4W		R821	1-249-413-11	CARBON	470	5%	1/4W	
R408	1-249-437-11	CARBON	47K	5%	1/4W		R822	1-249-417-11	CARBON	1K	5%	1/4W	
R409	1-249-441-11	CARBON	100K	5%	1/4W		R823	1-249-429-11	CARBON	10K	5%	1/4W	
R501	1-249-433-11	CARBON	22K	5%	1/4₩		R824	1-249-429-11	CARBON	10K	5%	1/4₩	
DF44	4 040 404 41	A+DDA**					505-	4 040	04BB0::	00.7			
R502	1-249-421-11	CARBON	2. 2K	5%	1/4W		R825	1-249-433-11	CARBON	22K	5%	1/4W	
R503	1-249-433-11	CARBON	22K	5%	1/4W		R826	1-249-429-11	CARBON	10K	5%	1/4₩	
R504	1-249-409-11	CARBON	220	5%	1/4₩		R827	1-249-421-11	CARBON	2. 2K	5%	1/4₩	
R505	1-249-441-11	CARBON	100K	5%	1/4W		R828	1-249-410-11	CARBON	270	5%	1/4W	
R506	1-249-429-11	CARBON	10K	5%	1/4W		R829	1-247-887-00	CARBON	220K	5%	1/4₩	
R507	1-249-411-11	CARBON	330	5%	1/4W		R830	1-249-413-11	CARBON	470	5%	1/4W	
R508	1-249-437-11	CARBON	47K	5%	1/4W		R831	1-249-413-11	CARBON	470	5%	1/4W	
R509	1-249-441-11	CARBON	100K	5%	1/4W		R832	1-249-435-11	CARBON	33K	5%	1/4W	
R601	1-249-409-11	CARBON	220	5%	1/4W		R833	1-249-435-11	CARBON	2. 2K	5%	1/4W	
R602	1-249-409-11	CARBON	220	5%	1/4W		R834	1-249-421-11	CARBON	2. 2K 2. 2K	5% 5%	1/4W	
11002	1-245-405-11	CANDON	220	3/6	1/411		1034	1-243-421-11	CANDON	2. ZK	3/6	1/411	
R603	1-247-840-00	CARBON	2. 4K	5%	1/4W		R835	1-249-421-11	CARBON	2. 2K	5%	1/4₩	
R605	1-247-727-11	CARBON	10	5%	1/2W		R836	1-249-421-11	CARBON	2. 2K	5%	1/4W	
R701	1-249-433-11	CARBON	22K	5%	1/4W		R837	1-249-429-11	CARBON	10K	5%	1/4W	
R702	1-249-425-11	CARBON	4. 7K	5%	1/4W		R838	1-249-429-11	CARBON	10K	5%	1/4W	
R703	1-249-420-11	CARBON	1. 8K	5%	1/4₩		R839	1-249-433-11	CARBON	22K	5%	1/4W	
R704	1-249-426-11	CARBON	5. 6K	5%	1/4W		R840	1-249-429-11	CARBON	10K	5%	1/4₩	
R705	1-249-427-11	CARBON	6. 8K	5%	1/4W		R841	1-249-429-11	CARBON	10K	5%	1/4W	
R706	1-249-419-11	CARBON	1. 5K	5%	1/4W		R842	<u></u> 1-212-958-00	FUSIBLE	10	5%	1/2₩	F
R707	1-249-429-11	CARBON	10K	5%	1/4W		R843	1-249-419-11	CARBON	1. 5K	5%	1/4W	
R708	1-249-419-11	CARBON	1. 5K	5%	1/4W		R844	1-249-417-11	CARBON	1K	5%	1/4W	
R709	1-249-425-11	CARBON	4. 7K	5%	1/4₩		R845	1-249-421-11	CARBON	2. 2K	5%	1/4₩	
R710	1-249-409-11	CARBON	220	5%	1/4W		R846	1-247-887-00	CARBON	220K	5%	1/4W	
K/11	1-249-417-11	CARBON	1K	5%	1/4W		R847	1-249-410-11	CARBON	270		1/4₩	
R712 R713	1-249-427-11 1-249-427-11	CARBON CARBON	6. 8K 6. 8K	5% 5%	1/4W 1/4W		R848	1-249-421-11	CARBON	2. 2K	US, Car	1/4₩	
NIIS	1-243-421-11	CANDON	U. OK	3/6	1/411						(US, Car	iau i ari/	
R714	1-249-417-11	CARBON	1K	5%	1/4W		R849	1-249-421-11	CARBON	2. 2K	5%	1/4W	
R715	1-249-425-11	CARBON	4. 7K	5%	1/4₩		R850	1-249-432-11	CARBON	18K	5%	1/4W	
R716	1-249-433-11	CARBON	22K	5%	1/4W		R851	1-249-429-11	CARBON	10K	5%	1/4W	
R717	1-249-425-11	CARBON	4. 7K	5%	1/4W		11001	1 270 720 11	OMIDON	TUIK	(US, Car		
R718	1-249-433-11	CARBON	22K	5%	1/4W		R852	1-249-405-11	CARBON	100		1/4₩	
		***************************************		0,0	•,		1.002	. 2.0 .00			(US, Car		
R719	1-249-436-11	CARBON	39K	5%	1/4W						, •	/	
R720	1-247-856-00	CARBON	11K	5%	1/4W		R853	1-249-393-11	CARBON	10	5%	1/4¥	
R721	1-249-437-11	CARBON	47K	5%	1/4W			•		•	(US, Car		
R722	1-247-742-11	CARBON	180	5%	1/2W		R854	1-247-872-11	CARBON	51K	5%	1/4₩	
R723	1-808-065-11	THERMISTOR, PO			. =		R855	1-249-427-11	CARBON	6. 8K	5%	1/4W	
-		,					R856	1-249-433-11	CARBON	22K	5%	1/4W	
R724	1-808-065-11	THERMISTOR, PO	SITIVE				R859	<u></u> 1-212-942-00	FUSIBLE	2. 2	5%	1/2W	F
R801	<u> </u>	FUSIBLE	6.8	5%	1/2W	F							
R802	<u> </u>	FUSIBLE	5. 6	5%	1/2W								
R803	1-249-426-11	CARBON	5. 6K	5%	1/4W								
R804	1-249-428-11	CARBON	8. 2K	5%	1/4W		1						

Note:

Note:
The components identified by mark or dotted line with mark are critical for safety.
Replace only with part number specified.

Note:

Les composants identifiés par une marque A sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

MAIN REAL MOTOR PANEL

Ref. No	o. <u>Part No.</u>	<u>Description</u> Remark	Ref. No.	Part No.	Description	Remark
R914	1-249-422-11	CARBON 2.7K 5% 1/4W			⟨ MOTOR ⟩	
R915	1-249-424-11	CARBON 3.9K 5% 1/4W				
R916 R928	1-249-428-11 1-249-434-11	CARBON 8. 2K 5% 1/4W CARBON 27K 5% 1/4W	M1051 M1052	X-3356-638-1	MOTOR (REEL R) ASSY MOTOR (ASSIST) ASSY	
11320	1 243 404 11	OAHOON 27K 3/6 1/4W	MIUSZ	X-3356-604-1	MOTOR (922121) 9221	
		⟨ VARIABLE RESISTOR ⟩				
RV101	1-238-600-11	RES, ADJ, CARBON 10K	*******	**********	*************	******
RV102	1-238-016-11	RES, ADJ, CARBON 10K		* A-2006-441-A	PANEL BOARD (including ■	A-F)
RV103	1-238-601-11	RES, ADJ, CARBON 22K			*********	
RV201 RV202	1-238-600-11 1-238-016-11	RES, ADJ, CARBON 10K RES, ADJ, CARBON 10K		9-911-844-XX	CUSHION	
				* 4-932-502-01	HOLDER, FL TUBE	
RV203	1-238-601-11	RES, ADJ, CARBON 22K		* 4-937-336-01	HOLDER, LED	
RV601 RV603	1-238-085-11 1-241-046-11	REA, VAR, CARBON 20K/20K (PHONE LEVEL) RES, VAR, CARBON 5K (BIAS)			(CAPACITOR)	
RV604	1-241-410-11	RES, VAR, CARBON 20K/50K/50K (REC LEVEL)			(ONI NOTION)	
RV605	1-238-904-21	RES, VAR, CARBON 50K/50K (BALANCE)	C901	1-161-494-00	CERAMIC 0. 022uF	25V
RV801	1-238-602-11	RES, ADJ, CARBON 47K	C902 C903	1-161-494-00 1-162-282-31	CERAMIC 0.022uF CERAMIC 100PF 1	25V 10% 50V
			C904	1-162-282-31		10% 50V
		〈 RELAY 〉			/ 001111TOTOD \	
RY301	1-515-683-11	RELAY			⟨ CONNECTOR ⟩	
			CN901	* 1-580-782-11	CONNECTOR, BOARD TO BOARD	
		(SWITCH)			/ DIODE \	
S915	1-554-118-00	SWITCH, PUSH (1 KEY)(MPX FILTER)			(DIODE)	
S916	1-572-154-11	SWITCH, ROTARY (DOLBY NR)	D901	8-719-912-20	DIODE 1SS120	
		〈 TRANSFORMER 〉	D902 D903	8-719-912-20 8-719-301-38	DIODE 1SS120 DIODE SEL2210S (ARL)	
		(Third official)	D303	0-719-301-30	DIODE SELZZIOS (ARL)	
T101 T201	1-433-335-11 1-433-335-11	TRANSFORMER, BIAS OSCILLATION TRANSFORMER, BIAS OSCILLATION			<pre>〈 FLUORESCENT INDICATOR 〉</pre>	
T301	1-433-336-11	TRANSFORMER, BIAS OSCILLATION	FL901	1-519-658-11	INDICATOR TUBE, FLUORESCEN	т.
						•
		(TEST PIN)			(IC)	
TP301	* 1-564-506-11	PLUG, CONNECTOR 3P	10901	8-759-636-62	IC M50940-325SP	
TP801 TP802	* 1-564-505-11 * 1-564-505-11	PLUG, CONNECTOR 2P PLUG, CONNECTOR 2P	10902	8-741-100-48	IC SBX1610-59	
TP803	* 1-564-506-11	PLUG, CONNECTOR 3P			(TRANSISTOR)	
					(IIIIIII)	
		(CRYSTAL)	0901 0902	8-729-900-61 8-729-900-61	TRANSISTOR DTA114ES	
X801	1-577-358-21	VIBRATOR, CERAMIC 4MHz	0903	8-729-900-61	TRANSISTOR DTA114ES TRANSISTOR DTA114ES	
			0904	8-729-900-61	TRANSISTOR DTA114ES	
******	*******	****************	0905	8-729-900-61	TRANSISTOR DTA114ES	
			0906	8-729-900-65	TRANSISTOR DTA144ES	
	* 1-632-741-11	REAL MOTOR BOARD			/ DECISTOR \	
		***************************************			(RESISTOR)	
		(CAPACITOR)	R857	1-249-422-11	CARBON 2. 7K 5%	
C1051	1-124-907-11	ELECT 10uF 20% 50V	R858	1-249-422-11	CARBON 2. 7K 5%	•
C1052	1-124-907-11	ELECT 10uF 20% 50V	R901 R902	1-249-441-11 1-249-441-11	CARBON 100K 5% CARBON 100K 5%	
C1053	1-164-159-11	CERAMIC 0. 1uF 50V	R903	1-249-441-11	CARBON 100K 5%	
		⟨ CONNECTOR ⟩	P004	1 240 441 11		·
		\ OUNIEUTUI /	R904 R905	1-249-441-11 1-249-441-11	CARBON 100K 5% CARBON 100K 5%	
CN1051	* 1-564-499-11	PIN, CONNECTOR 6P	R906	1-249-441-11	CARBON 100K 5%	
CN1052 CN1053	* 1-564-718-11 * 1-564-718-11	PIN, CONNECTOR (SMALL TYPE) 2P	R907	1-247-903-00	CARBON 1M 5%	1/4W
UN1033	* 1-564-718-11	PIN, CONNECTOR (SMALL TYPE) 2P	R908	1-249-435-11	CARBON 33K 5%	1/4¥
		<pre>⟨ RESISTOR ⟩</pre>	R909	1-249-411-11	CARBON 330 5%	1/4W
R1051	1-249-414-11	CARBON 560 5% 1/4W	R910	1-249-429-11	CARBON 10K 5%	1/4W
	1 449 414-11	CARBON 560 5% 1/4W	R911 R912	1-249-429-11 1-249-429-11	CARBON 10K 5% CARBON 10K 5%	
			R913	1-249-429-11	CARBON 10K 5%	
			1		• • • • • • • • • • • • • • • • • • • •	•

PANEL

Ref. No.	Part No.	<u>Description</u>		Remark	Ref. No.	Part No.	Description	Remark
R917 R918 R919 R920 R921 R922 R923 R924 R925	1-249-422-11 1-249-424-11 1-249-428-11 1-249-434-11 1-249-422-11 1-249-428-11 1-249-434-11 1-249-432-11	CARBON 2. 7K CARBON 3. 9K CARBON 8. 2K CARBON 2. 7K CARBON 2. 7K CARBON 3. 9K CARBON 8. 2K CARBON 7. 7K CARBON 2. 7K	5% 1/4 5% 1/4 5% 1/4 5% 1/4 5% 1/4 5% 1/4 5% 1/4 5% 1/4	W W W W W W W W W W W W W W W W W W W	52 58 518 HRPE1001	△1-450-100-11 △1-450-399-11 △1-551-506-XX △1-555-795-00 8-719-980-85 A-2003-722-A	MISCELLANEOUS ************* TRANSFORMER, POWER (US, Canac TRANSFORMER, POWER (AEP) CORD, POWER (US, Canadian) CORD, POWER, EURO PLUG (AEP) DIODE SLF-325C SLIDER (R4) COMPLETE ASSY	lian)
R926 R927 R929 R930 R931 R932	1-249-424-11 1-249-428-11 1-249-405-11 1-249-405-11 1-249-405-11 1-249-405-11	CARBON 3. 9K CARBON 8. 2K CARBON 100 CARBON 100 CARBON 100 CARBON 100	5% 1/4 5% 1/4 5% 1/4 5% 1/4 5% 1/4	W W W	IC1001 IC1002 IC803 M1051 M1052 M1053 S1001	8-749-920-97 8-749-920-97 8-759-973-95 X-3356-638-1 X-3356-604-1 X-3356-646-1 1-466-525-11	IC PHOTO REFLECTOR GP2S22B IC PHOTO REFLECTOR GP2S22B IC BA6219B MOTOR (REEL R) ASSY MOTOR (ASSIST) ASSY MOTOR (CAPSTAN V1) ASSY ENCODER, ROTARY	
R933	1-249-405-11	CARBON 100	5% 1/4	W			•	
\$701 \$801 \$802 \$901 \$902 \$903 \$904 \$905 \$906 \$907 \$908 \$909 \$910 \$911	1-554-118-00 1-571-520-11 1-571-520-11 1-554-303-21 1-554-303-21 1-554-303-21 1-554-303-21 1-554-303-21 1-554-303-21 1-554-303-21 1-554-303-21 1-554-303-21 1-554-303-21	<pre>SWITCH > SWITCH, PUSH (1 KEY) SWITCH, SLIDE (DIRE(SWITCH, SLIDE (TIME) SWITCH, TACTILE (●) SWITCH, TACTILE (○) SWITCH, TACTILE (○) SWITCH, TACTILE (○) SWITCH, TACTILE (AE(SWITCH, TACTILE (FAI(SWITCH, TACTILE (FAI(SWITCH, TACTILE (PAI(SWITCH, T</pre>	CTION) R) IN/CLOSE (A) (I) (I) (I) (I) (I) (I) (I)			ACCESSORY ************* 1-559-533-11 * 3-350-830-01 * 3-366-700-21 * 3-366-700-21 3-703-450-01 * 3-704-343-01 3-753-080-11 3-753-080-21 3-753-080-31 3-753-080-41	& PACKING MATERIAL CORD, CONNECTION CUSHION INDIVIDUAL CARTON (US, Canadi INDIVIDUAL CARTON (AEP) INSTRUCTION (US) SHEET (STANDARD), PROTECTION MANUAL, INSTRUCTION (ENGLISH MANUAL, INSTRUCTION (FRENCH) MANUAL, INSTRUCTION (FRENCH) MANUAL, INSTRUCTION (D, NL, S,	ian) I, F, E, P) (AEP) I) (US) I) (Canadian) I) (AEP)
S912	1-554-303-21	SWITCH, TACTILE (RES	SET)				ARDWARE LIST	
S913 S914	1-554-303-21 1-554-303-21	SWITCH, TACTILE (MEN SWITCH, TACTILE (DIS (VIBRATOR)			# 1 # 2 # 3 # 4	7-685-534-19 7-682-547-04 7-621-849-00 7-685-645-79	SCREW +BTP 2.6X8 TYPE2 N-S SCREW +BVTT 3X6 (S) SCREW (BV/RING) SCREW +BVTP 3X6 TYPE2 N-S	S
X901	1-577-358-21	VIBRATOR, CERAMIC 4	MHz		# 5	7-621-773-93	SCREW (PANEL 2.6 TP2)	
********	*******	***************************************	**********	******	# 6 # 7 # 8 #10 #11	7-685-646-79 7-621-255-35 7-621-770-67 7-685-131-19 7-685-133-19	SCREW +BVTP 3X8 TYPE2 N-S SCREW +BVTT 2X5 (S) SCREW +BVTT 2.6X6 (S) SCREW +BTP 2.6X4 TYPE2 N-S SCREW +BTP 2.6X6 TYPE2 N-S SCREW +BVTT 2X4 (S)	

D : GERMAN NL: DUTCH S : SWEDISH I : ITALIAN F : FRENCH E : SPANISH P : PORTUGUESE ex.

The components identified by mark A or dotted line with mark are critical for safety.
Replace only with part number specified.

Note:
Les composants identifiés par une marque A sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

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